Process to clean membrane water filter unit backflushes permeate side - involves partially or fully emptying separated particles treated with an oxidising agent, back-flushing and tangential rinse, etc..

```
L20 ANSWER 86 OF 121 WPINDEX COPYRIGHT 2002 DERWENT INFORMATION LTD
AN
     1999-096840 [09]
                       WPINDEX
DNC C1999-028766
     D15 J01
DC
IN
     SAIER, H
     (MICR-N) MICRODYN MODULBAU GMBH & CO KG
CYC
                  Al 19990121 (199909)*
PΙ
    DE 19730441
ADT DE 19730441 A1 DE 1997-19730441 19970716
PRAI DE 1997-19730441 19970716
AN
    1999-096840 [09]
                       WPINDEX
     DE 19730441 A UPAB: 19990302
```

In a process to clean a dead-end or micro-filtration membrane water filter unit, the filter is freed of filtered residues by back-flushing from the permeate side and/or the direction of a tangential rinse on the filter fluid side. The improvement is that: (a) prior to the back-flush action, the filter is partially or fully emptied, the separated particles are treated with an oxidising agent; (b) the first action (a) is followed by back-flushing and tangential rinse; (c) the oxidisation process is effected at enhanced temperature between 70 and 160 degrees Celsius; (d) the oxidisation agent is oxygen-enriched air mixed with steam; (e) the process is undertaken at a pressure of between 1 and 6 bar; (f) the cleaning and filtration processes are carried out alternately.

 $\mbox{USE}\xspace$ -Process to clean a dead-end or micro-filtration membrane water filter unit.

ADVANTAGE - The process is simple, cheap, effective, requires little energy, and reduces the frequency with which chemical treatment is necessary. $Dwg.\,0/2$

BEST AVAILABLE COPY

2001 Sopheon Corporation All rights reserved